UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/086,792	02/28/2002	Donald James McNamara	13768.242	8972

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EXAMINER
MEUCCI, MICHAEL D

ART UNIT	PAPER NUMBER
2142	

DATE MAILED: 01/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)	
Response to Rule 312 Communication	10/086,792	MCNAMARA ET AL.	
	Examiner	Art Unit	
	Michael D. Meucci	2142	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

1. ☒ The amendment filed on <u>01 December 2005</u> under 37 CFR 1.312 has been considered, and has been:

    a) ☐   entered.

    b) ☐   entered as directed to matters of form not affecting the scope of the invention.

    c) ☐   disapproved because the amendment was filed after the payment of the issue fee.
          Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1)
          and the required fee to withdraw the application from issue.

    d) ☒   disapproved. See explanation below.

    e) ☐   entered in part. See explanation below.

See examiner's amendment.

BEATRIZ PRIETO
PRIMARY EXAMINER
1/13/06

DETAILED ACTION

Response to 312 Communication

1.   The amendment after allowance was non-compliant because claims 47 and 48

contained incorrect status identifiers. Corrections of the status identifiers have been

made in the examiner's amendment below. Changes the applicant intended to make

with these prior amendments have been authorized for inclusion in the examiner's

amendment.

EXAMINER'S AMENDMENT

2.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

3.   Authorization for this examiner's amendment was given in a telephone interview

with Jens Jenkins (Reg. No. 44,803) on 13 January 2006. Claims 7, 9, 51, and 53 have

been amended.

4.   The listing of claims replaces all prior versions and listings of claims in the
application:

1 – 5   (Cancelled)

6.   (Previously Presented) The method of claim 47, wherein the listener
component of the notification service receives the notification from a wireless device.

7.   (Currently Amended) The method of claim 6, further comprising:

an act of delivering the notification to a mobile service provider.

8.   (Previously Presented) The method of claim 47, wherein the listener
component of the notification service receives the notification from a mobile service
provider.

9.   (Currently Amended) The method of claim 8, further comprising:

an act of delivering the notification to a wireless device.

10.   (Previously Presented) The method of claim 47, wherein the act of
referencing the configuration XML document at the routing component to determine a
category associated with the notification comprises:

determining that the notification is an instant message.

11.   (Previously Presented) The method of claim 47, wherein the act of

referencing the configuration XML document at the routing component to determine a

category associated with the notification comprises:

an act of failing to detect any category associated with the notification; and

an act of determining that the notification is of a default category based on the

failure to detect any category associated with the notification.

12.   (Previously Presented) The method of claim 47, wherein the act of

referencing the configuration XML document at the routing component to determine a

category associated with the notification comprises:

determining that the notification is a buddy list-related notification.

13.   (Previously Presented) The method of claim 47, wherein the act of

referencing the configuration XML document at the routing component to determine a

category associated with the notification comprises:

determining that the notification is a news-related notification.

14.   (Previously Presented) The method of claim 47, wherein the act of

referencing the configuration XML document at the routing component to determine a

category associated with the notification comprises:

determining that the notification is a mobile-originated notification.

15.   (Previously Presented) The method of claim 47, wherein the act of

performing one or more transform operations on the notification content based on the

category associated with the notification comprises:

determining whether to check that the notification should be muted.

16.   (Previously Presented) The method of claim 47, wherein the act of

performing one or more transform operations on the notification content based on the

category associated with the notification comprises:

accessing a user profile associated with a sender or receiver of the notification.

17.   (Previously Presented) The method of claim 47, wherein the act of

performing one or more transform operations on the notification content based on the

category associated with the notification comprises:

authenticating the notification by verifying whether a user account is disabled or

authorized.

18.   (Previously Presented) The method of claim 47, wherein the act of

performing one or more transform operations on the notification content based on the

category associated with the notification comprises:

inserting an advertisement into the notification.

19.   (Previously Presented) The method of claim 47, wherein the act of performing one or more transform operations on the notification content based on the category associated with the notification comprises:

formatting the notification for the notification sink.

20.   (Previously Presented) The method of claim 47, wherein the act of performing one or more transform operations on the notification content based on the category associated with the notification comprises:

determining whether a user has exceeded a message limit.

21.   (Previously Presented) The method of claim 47, wherein the act of performing one or more transform operations on the notification content based on the category associated with the notification comprises:

determining the transform operations to perform based on the category.

22.   (Cancelled)

23.   (Previously Presented) The method of claim 21, further comprising an act of determining the order of operations to perform based on the category.

24-46. (Cancelled)

47.   (Previously Presented) In a network environment comprised of one or

more computer or devices such as mobile devices that serve as notification sources,

meaning that such computer or devices serve as sources where notifications are

generated in response to an event, such notifications being generated in a network

format comprised of an XML document included within an HTTP post request or

included with a SOAP message that is included within an HTTP post request, and

wherein the network is also comprised of one or more computers or devices that serve

as notification sinks, meaning that such computer or devices serve as destinations on

the network where the generated notifications are to be sent, a method for delivering

such notifications from a notification service that scales the notifications to the number

and variety of notification sources and notification sinks at the time such notifications

are generated and delivered, the method comprising:

(a) receiving, at a listening component of the delivery service, a notification

generated by a notification source in a network format comprised of an XML document

included within an HTTP post request, notification content of the notification being

structured within the XML document that identifies data including a category of

notification and transform operations associated with the category that may be

performed on notifications of the particular category;

(b) translating the notification into an internal processing format

(c) forwarding the translated notification to a routing component of the notification

service where categorizations of notifications that may be received are stored in an XML

configuration document, wherein each of the categories has associated transform

operations that may be performed for that category;

(d) referencing the XML configuration document at the routing component to

determine a category associated with the notification and performing at the routing

component one or more of the associated transform operations on the notification

content of the XML document;

(e) forwarding the notification from the routing component to a delivery

component of the notification service for delivery to the notification sinks of the network;

(f) changing the XML configuration document at the router by adding or deleting

nodes of the XML document to add or delete different categories of notifications, and

editing transform operations consistent with the added or deleted categories; and

(g) repeating parts (a) through (e) for any subsequent notification corresponding

to the changed categories of notifications.

48.   (Previously Presented) In a network environment comprised of one or

more computer or devices such as mobile devices that serve as notification sources,

meaning that such computer or devices serve as sources where notifications are

generated in response to an event, such notifications being generated in a network

format comprised of an XML document included within an HTTP post request or

included with a SOAP message that is included within an HTTP post request, and

wherein the network is also comprised of one or more computers or devices that serve

as notification sinks, meaning that such computer or devices serve as destinations on

the network where the generated notifications are to be sent, a computer program

product for implementing a method for delivering such notifications from a notification

service that scales the notifications to the number and variety of notification sources and

notification sinks at the time such notifications are generated and delivered, the method

comprising:

(a) receiving, at a listening component of the delivery service, a notification

generated by a notification source in a network format comprised of an XML document

included within an HTTP post request, notification content of the notification being

structured within the XML document that identifies data including a category of

notification and transform operations associated with the category that may be

performed on notifications of the particular category;

(b) translating the notification into an internal processing format

(c) forwarding the translated notification to a routing component of the notification

service where categorizations of notifications that may be received are stored in an XML

configuration document, wherein each of the categories has associated transform

operations that may be performed for that category;

(d) referencing the XML configuration document at the routing component to

determine a category associated with the notification and performing at the routing

component one or more of the associated transform operations on the notification

content of the XML document;

(e) forwarding the notification from the routing component to a delivery

component of the notification service for delivery to the notification sinks of the network;

(f) changing the XML configuration document at the router by adding or deleting

nodes of the XML document to add or delete different categories of notifications, and

editing transform operations consistent with the added or deleted categories; and

(g) repeating parts (a) through (e) for any subsequent notification corresponding

to the changed categories of notifications.

49.   (Previously Presented) The method of claim 47, further comprising a step

for scaling the notification service in order to take into account the changes in the

number of notification sources or notification sinks on the network, the scaling being

performed by:

providing the listener, routing, and delivery components of the notification service

with a plurality of identical modules for performing the functions of the listener, routing,

and delivery components;

providing each of the listener, routing, and delivery components with a load

balancing function that distributes a received notification to one of the modules of that

component; and

changing the number of modules at one or more of the listener, routing, and

delivery components in order to take into account changes in the number of notification

sources or notification sinks on the network.

50.   (Previously Presented) The computer program product of claim 48,

wherein the listener component of the notification service receives the notification from

a wireless device.

51.   (Currently Amended) The computer program product of claim 50, further

comprising:

an act of delivering the notification to a mobile service provider.

52.   (Previously Presented) The computer program product of claim 48,

wherein the listener component of the notification service receives the notification from

a mobile service provider.

53.   (Currently Amended) The computer program product for implementing the

method of claim 52, further comprising:

an act of delivering the notification to a wireless device.

54.   (Previously Presented) The computer program product of claim 48,

wherein the act of referencing the configuration XML document at the routing

component to determine a category associated with the notification comprises:

determining that the notification is an instant message.

55.   (Previously Presented) The computer program product of claim 48,

wherein the act of referencing the configuration XML document at the routing

component to determine a category associated with the notification comprises:

an act of failing to detect any category associated with the notification; and

an act of determining that the notification is of a default category based on the

failure to detect any category associated with the notification.

56.   (Previously Presented) The computer program product of claim 48,

wherein the act of referencing the configuration XML document at the routing

component to determine a category associated with the notification comprises:

determining that the notification is a buddy list-related notification.

57.   (Previously Presented) The computer program product of claim 48,

wherein the act of referencing the configuration XML document at the routing

component to determine a category associated with the notification comprises:

determining that the notification is a news-related notification.

58.   (Previously Presented) The computer program product of claim 48,

wherein the act of referencing the configuration XML document at the routing

component to determine a category associated with the notification comprises:

determining that the notification is a mobile-originated notification.

59.   (Previously Presented) The computer program product of claim 48,

wherein the act of performing one or more transform operations on the notification

content based on the category associated with the notification comprises:

determining whether to check that the notification should be muted.

60.   (Previously Presented) The computer program product of claim 48,

wherein the act of performing one or more transform operations on the notification

content based on the category associated with the notification comprises:

accessing a user profile associated with a sender or receiver of the notification.

61.   (Previously Presented) The computer program product of claim 48,

wherein the act of performing one or more transform operations on the notification

content based on the category associated with the notification comprises:

authenticating the notification by verifying whether a user account is disabled or

authorized.

62.   (Previously Presented) The computer program product of claim 48,

wherein the act of performing one or more transform operations on the notification

content based on the category associated with the notification comprises:

inserting an advertisement into the notification.

63.   (Previously Presented) The computer program product of claim 48,

wherein the act of performing one or more transform operations on the notification

content based on the category associated with the notification comprises:

    formatting the notification for the notification sink.

64.   (Previously Presented) The computer program product of claim 48,

wherein the act of performing one or more transform operations on the notification

content based on the category associated with the notification comprises:

    determining whether a user has exceeded a message limit.

65.   (Previously Presented) The computer program product of claim 48,

wherein the act of performing one or more transform operations on the notification

content based on the category associated with the notification comprises:

    determining the transform operations to perform based on the category.

66.   (Previously Presented) The computer program product of claim 65, further

comprising an act of determining the order of operations to perform based on the

category.

67.   (Previously Presented) The computer program product of claim 48, further

comprising a step for scaling the notification service in order to take into account the

changes in the number of notification sources or notification sinks on the network, the

scaling being performed by:

provioding the listener, routing, and delivery components of the notification service

with a plurality of identical modules for performing the functions of the listener, routing,

and delivery components;

providing each of the listener, routing, and delivery components with a load

balancing function that distributes a received notification to one of the modules of that

component; and

changing the number of modules at one or more of the listener, routing, and

delivery components in order to take into account changes in the number of notification

sources or notification sinks on the network.

5.   Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Meucci at (571) 272-3892. The examiner can normally be reached on Monday-Friday from 9:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell, can be reached at (571) 272-3868. The fax phone number for this Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BEATRIZ PRIETO
PRIMARY EXAMINER
1/13/06